UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

February 1962

Part II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

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* Part I - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, Post Office Building, San Pedro, California

PUBLICATION OF HISTORICAL SEA TEMPERATURE DATA

This month the Bureau of Commercial Fisheries published Special Scientific Report-Fisheries No. 385 entitled "Sea Surface Temperature Monthly Average and Anomaly Charts, Northeastern Pacific Ocean, 1947-1958". This report, consisting of two parts, is a historical study of sea surface temperature data in the area bounded by the west coast of North America and longitude 150° W. and latitude 20° N. to 54° N. and of temperature data at four coastal stations along the west coast of North America. Part I consists of 12 monthly average charts based on data from 1947 to 1958, and Part II consists of 144 monthly anomaly charts based on the average charts. Copies of the report may be obtained by writing to our San Diego address.

SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN FEBRUARY 1962

Acknowledgments

The following organizations and stations contributed data for the February 1962 charts:

U.S. Weather Bureau, San Diego, California
U.S. Weather Bureau Ship Visitation Office, Long Beach, California
U.S. Naval Communication Station Balboa, Fort Amador, Canal Zone
U.S. Navy Branch Hydrographic Office, Honolulu, Hawaii; Seattle, Washington; San Francisco and Wilmington, California
U.S. Coast Guard, Port Hueneme Light Station, Port Hueneme, California
U.S. Bureau of Commercial Fisheries, Biological Laboratories, Honolulu, Hawaii; La Jolla, California; Seattle, Washington
U.S. Bureau of Commercial Fisheries, Exploratory Fishing and Gear Research Base, Seattle, Washington
Guadalupe Island and Ensenada by Pedro Mercado of the Universidad Autonoma de Baja California, Ensenada, Mexico
Hopkins Marine Station, Pacific Grove, California by J. P. Balesteri

Humboldt State College by George Allen
Inter-American Geodetic Survey by Rene Cortes at Salina Cruz, Mexico; David Ortega at Manzanillo, Mexico; Romeo Valencia at Pt. San Jose, Guatemala; R. E. Pino at Pt. Armuelles, Panama; V. E. Castillo at Tumaco, Colombia; Gualberto Tapia at San Cristobal, Galapagos; Rodrigo Gomez at La Libertad, Ecuador; A. Campos at Talara, Peru; R. Celis at San Juan, Peru
Inter-American Tropical Tuna Commission, La Jolla and Terminal Island, California
Kelco Company, San Diego, California
Oregon State College by Bruce Wyatt
Pacific Oceanographic Group, Nanaimo, British Columbia, by H. J. Hollister from observations by R. W. Collins at Quatsino Lightstation; J. M. Allen at Cape St. James Light; B. Stuart at Amphitrite Point Light; J. M. Hartt at Langara Island Light
Scripps Institution of Oceanography, La Jolla, California by Margaret Robinson and Hans Klein
Ship Santa Maria

Charts

Figure 1.--Mean sea surface temperatures (°F) derived from approximately 8000 observations. Squares show temperatures at weather-ship stations. Numberals on shore are temperatures at coastal and light stations.

Figure 2.--Deviation of sea surface temperatures (°F) from long term mean charts of H.O. 225. Hatched areas are colder than mean.

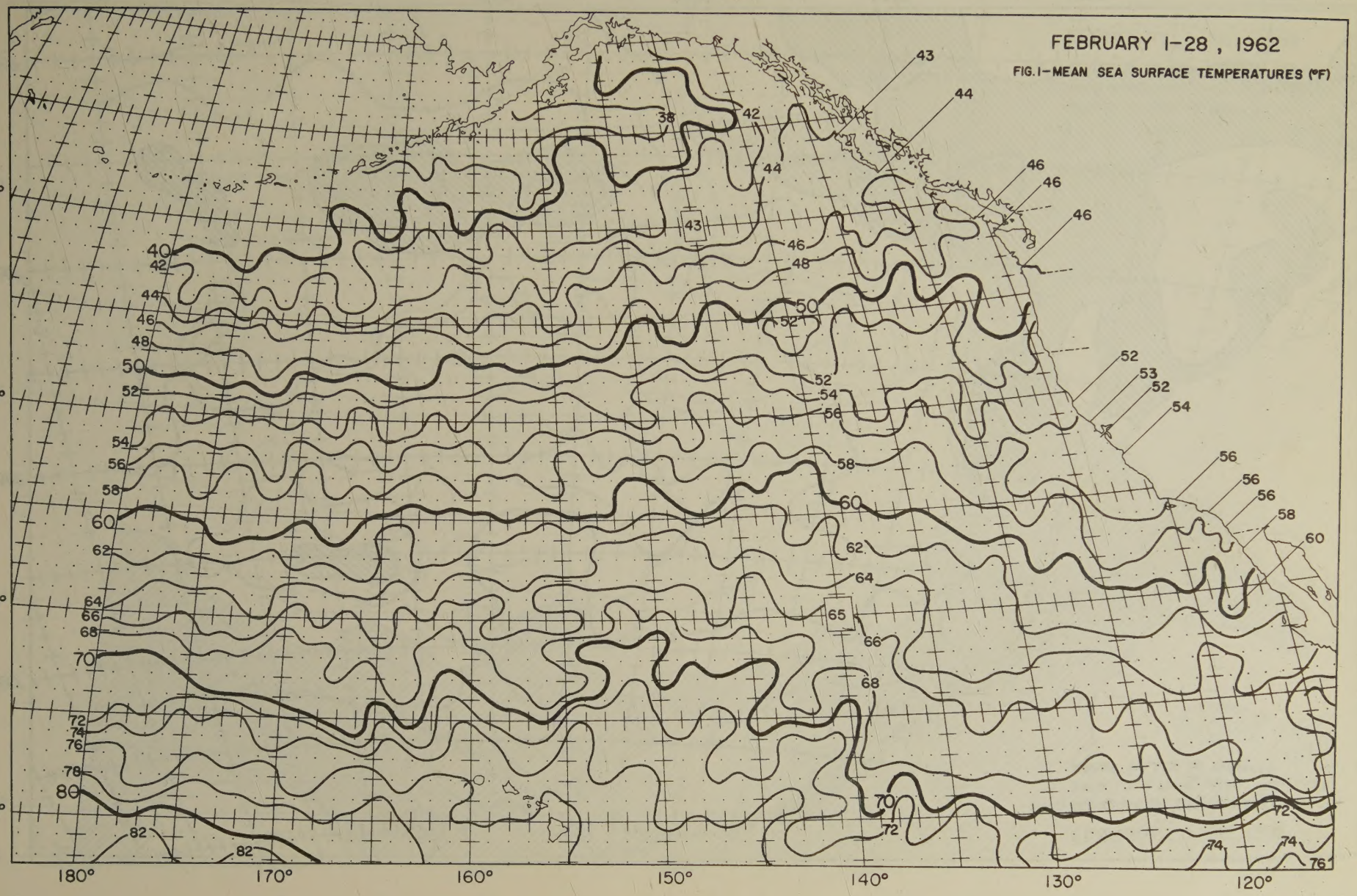
Figure 3.--Deviation of sea surface temperatures (°F) from those of February 1961. Hatched areas are colder than 1961.

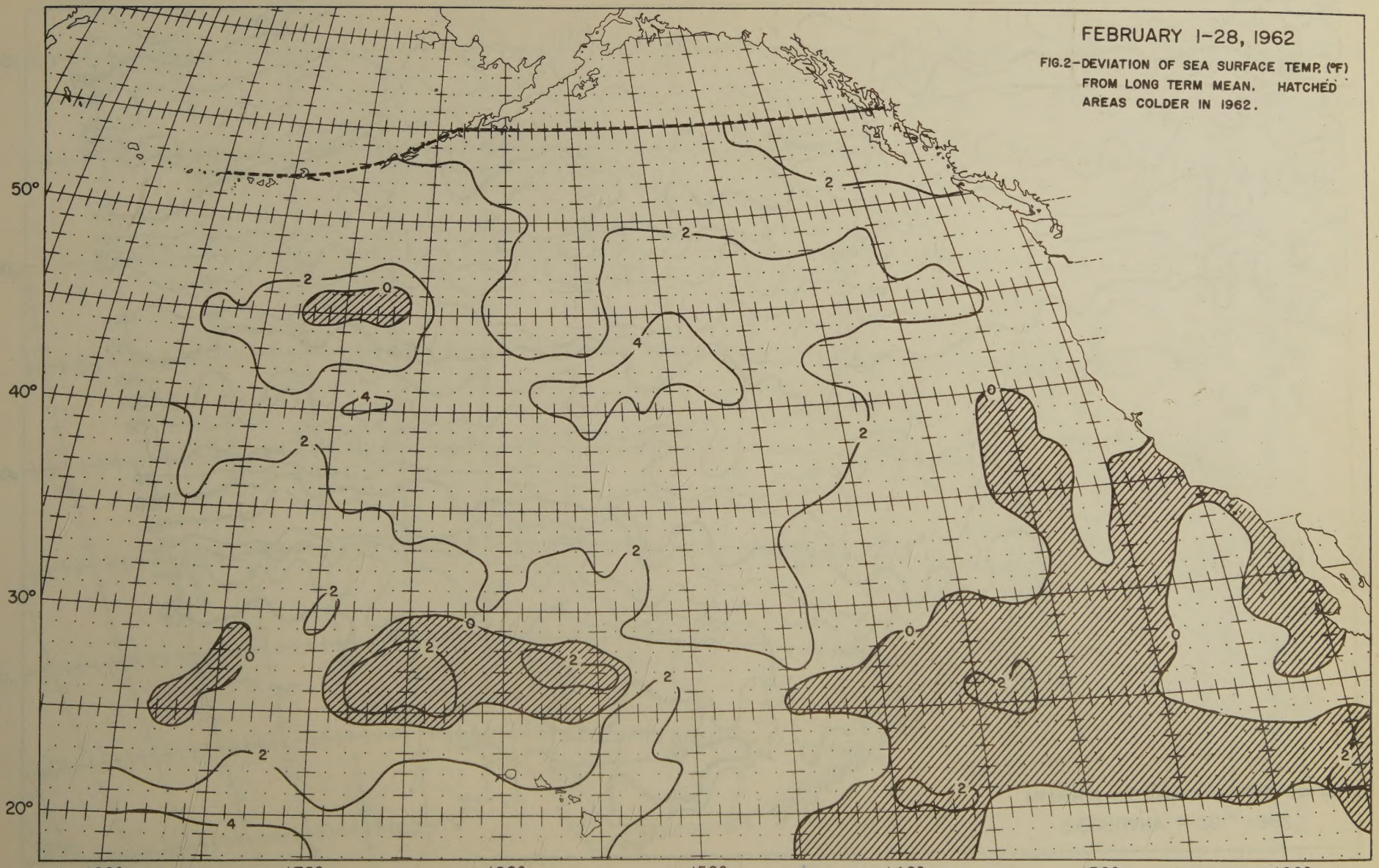
Figure 4.--Sea surface temperatures (°F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal and light stations.

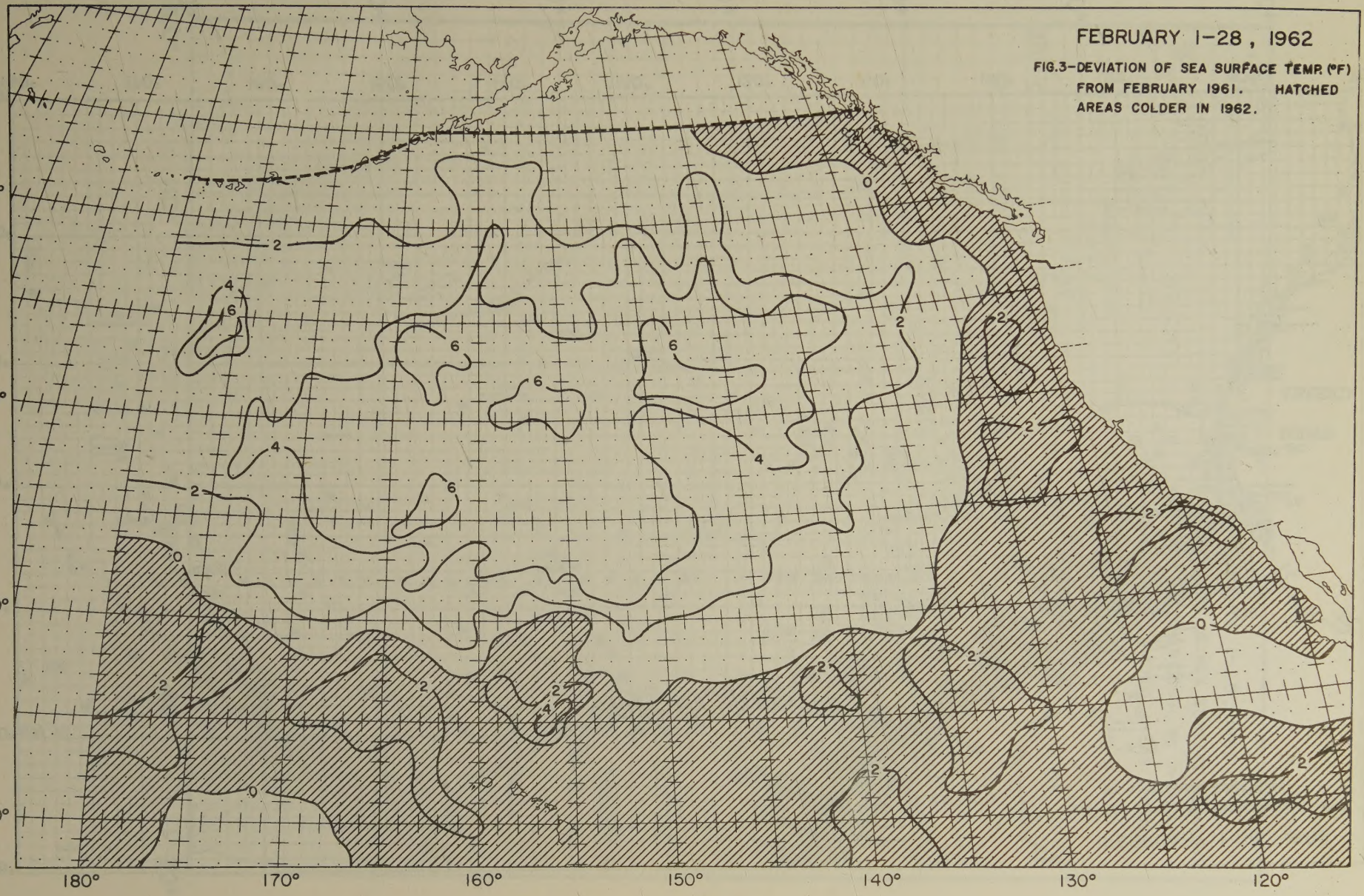
Figure 5.--Deviation of sea surface temperatures (°F) February 1962 - February 1961 by 1-degree squares. Shaded areas colder in 1962.

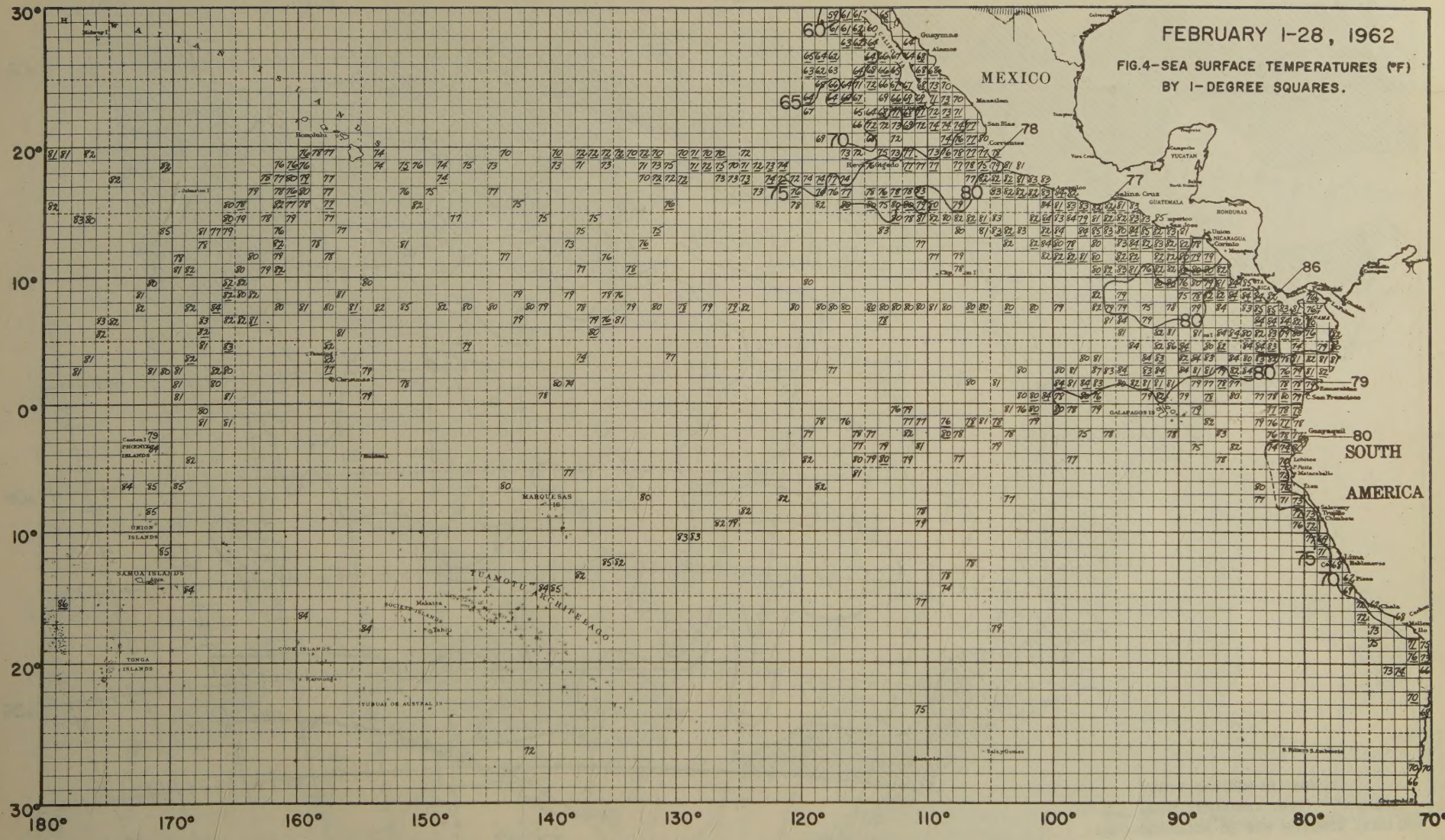
Figure 6.--Deviation of sea surface temperatures (°F) from 12 year mean (1947-1958) by 2-degree squares. Shaded areas colder in 1962.

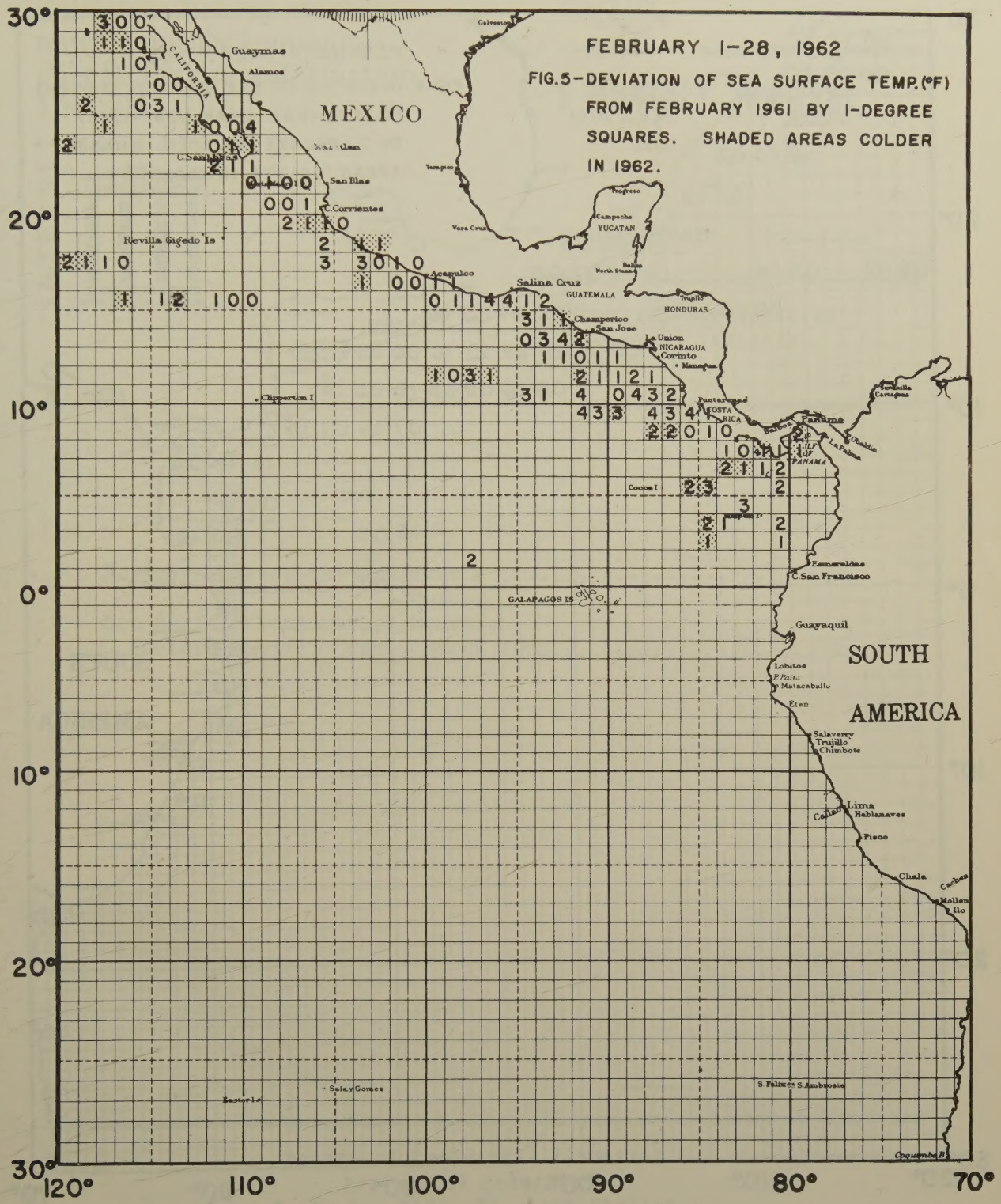
James A. Renner
Fishery Biologist (Research)

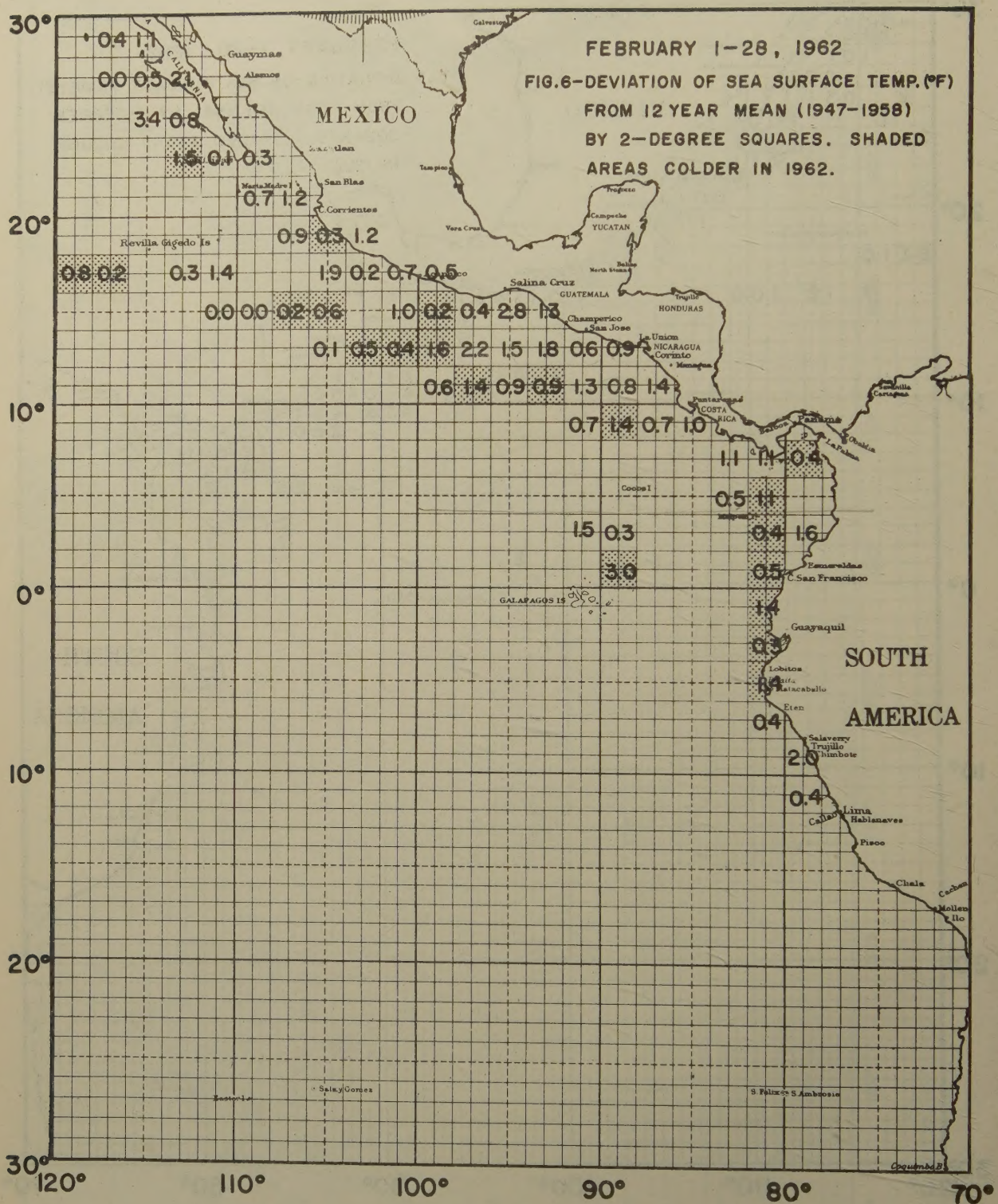

FEBRUARY 1-28, 1962
FIG. 1-MEAN SEA SURFACE TEMPERATURES (°F)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


FEBRUARY 1-28, 1962
FIG.2-DEVIATION OF SEA SURFACE TEMP. (°F) FROM LONG TERM MEAN. HATCHED AREAS COLDER IN 1962.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


FEBRUARY 1-28, 1962
FIG.3-DEVIATION OF SEA SURFACE TEMP.(°F) FROM FEBRUARY 1961. HATCHED AREAS COLDER IN 1962.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


FEBRUARY 1-28, 1962
FIG.4-SEA SURFACE TEMPERATURES (°F)
BY 1-DEGREE SQUARES.
MEXICO
SOUTH
AMERICA
HAWAIIAN
ISLANDS
Honolulu
Midway I.
Johnston I.
Palmyra I.
Christmas I.
Canton I.
PHOENIX
ISLANDS
Baker I.
Howland I.
UNION
ISLANDS
SAMOA ISLANDS
Apia
TONGA
ISLANDS
MARQUESAS
IS.
TUAMOTU ARCHIPELAGO
Makatea
SOCIETY ISLANDS
Tahiti
COOK ISLANDS
Rarotonga
TUBUAI OR AUSTRAL IS.
Easter I.
GALAPAGOS IS.
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Rio Balsas
Acapulco
Salina Cruz
Tapachula
GUATEMALA
HONDURAS
Campeche
YUCATAN
Progreso
Belize
Vera Cruz
Tampico
La Union
NICARAGUA
Corinto
Managua
Guayaquil
Salaverry
Trujillo
Chimbote
Lobitos
Punta
Matacaballo
Lima
Callao
Pisco
Chala
Mollendo
Ilo
Arica
Iquique
Tocopilla
Antofagasta
Coquimbo
Valparaiso
San Antonio
Talcahuano
Corral
Puerto Montt
Ancud
Chiloe I.
Juan Fernandez Is.
Valdivia
Corcovado G.
Taitao Pen.
Evangelistas
Wellington I.
Tres Montes
Pen.
Gulf of Penas
Chonos Archipelago
Guafo I.
Guaitecas Is.
Gulf of Corcovado
Chiloe I.
Gulf of Ancud
Gulf of Reloncavi
Gulf of Corcovado
Gulf of Penas
Gulf of Trinidad
Gulf of Peñas


FEBRUARY 1-28, 1962
FIG.5-DEVIATION OF SEA SURFACE TEMP.(°F) FROM FEBRUARY 1961 BY 1-DEGREE SQUARES. SHADED AREAS COLDER IN 1962.
MEXICO
SOUTH AMERICA
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
PANAMA
YUCATAN
GALAPAGOS IS
Guaymas
Alamos
San Blas
C.Corrientes
Revilla Gigedo Is
Acapulco
Salina Cruz
Champerico
San Jose
La Union
Corinto
Chipperton I
Coopes I
Guayaquil
Lobitos
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Hablanaves
Pisco
Chala
Mollendo
Salas y Gomez
S. Felix
S. Ambrosio
30°
20°
10°
0°
10°
20°
30°
120°
110°
100°
90°
80°
70°


FEBRUARY 1-28, 1962
FIG.6-DEVIATION OF SEA SURFACE TEMP.(°F)
FROM 12 YEAR MEAN (1947-1958)
BY 2-DEGREE SQUARES. SHADED
AREAS COLDER IN 1962.
MEXICO
SOUTH
AMERICA
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
YUCATAN
GALAPAGOS IS
Guaymas
Alamos
San Blas
Corrientes
Salina Cruz
Champerico
San Jose
Corinto
Managua
Panama
Coiba I
Esmeraldas
C. San Francisco
Guayaquil
Lobitos
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Huacho
Pisco
Chala
Mollendo
Tampico
Vera Cruz
Progreso
Campeche
Galveston
Revilla Gigedo Is
Easter I.
Salas y Gomez
S. Felix
S. Ambrosio
0.4 1.1
0.0 0.5 2.1
3.4 0.8
1.5 0.1 0.3
0.7 1.2
0.9 0.3 1.2
0.8 0.2
0.3 1.4
1.9 0.2 0.7 0.5
0.0 0.0 0.2 0.6
1.0 0.2 0.4 2.8 1.3
0.1 0.5 0.4 1.6 2.2 1.5 1.8 0.6 0.9
0.6 1.4 0.9 0.9 1.3 0.8 1.4
0.7 1.4 0.7 1.0
1.1 1.1 0.4
0.5 1.1
1.5 0.3
0.4 1.6
3.0
0.5
1.4
0.3
1.4
0.4
2.0
0.4
30°
20°
10°
0°
10°
20°
30°
120°
110°
100°
90°
80°
70°